

## Product datasheet for **MG208184**

### Hars (NM\_008214) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hars (NM_008214) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hars
Synonyms:	MMHRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208184 representing NM\_008214  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGATCGTCTGCTCTGGAGGAGCTGGTACGACTCCAGGGAGCGCATGTGAGGGGCCCTTAAGGAGC  
 AGAAAGCGTCCGCTGAGCAGATCGAGGAGGAGGTGACGAACTCCTAAAAGTGAAGGCACAGCTGGGCCA  
 GGATGAAGGCCAAACAGAAGTTTGTGCTCAAACCCCAAGGGCACGAGAGACTATAGTCCCCGCAGATG  
 GCAGTCCGGGAAAAGGTGTTGATGTCATCATCCGCTGTTTCAAACGCCATGGAGCAGAAGTGATTGATA  
 CACCTGTGTTGAACTAAAGGAAACACTGACTGGAAGTACGGAGAAGACTCAAAGCTTATCTATGACTT  
 GAAGGACCAGGGTGGGAGCTGCTGTCCCTCCGTTATGACCTTACTGTCCCTTTTCTCGCTATCTGGCA  
 ATGAATAAACTGACCAACATTAACGCTACCATATAGCAAAGGTATCGCCGGGACAACCCAGCTATGA  
 CCCGAGGCCGTTACCGTGAATTCTATCAATGCGATTTTGACATTGCCGGACAGTTCGACCCCATGATTCC  
 TGATGCAGAGTGCCTAAAGATTATGTGCGAGATCCTGAGTTCACCTCAGATCGGCAACTTCTGGTCAAG  
 GTAACACGACAGGCGCATCTAGATGGGATGTTTGTCTGTCTGTGGTGTTCCTGATAGCAAGTCCCGTACCA  
 TCTGCTCCTCGGTGGACAAGCTAGACAAGTTCCTGGGAGGAAGTGAAGAATGAGATGGTGGGAGAGAA  
 GGGCCTTGACCCGGAAGTGGCTGATCGCATCGGGACTATGTCCAGCAGCATGGTGGGGTTTCTCTGGTG  
 GAGCAGTTACTGCAGGATCCTAACTCTCCAAAAACAAACAGGCTTTAGAGGGCTTGGGAGACCTAAAGC  
 TGCTCTTTGAGTATCTAATCCTGTTTGGCATTGATGACAAGATCTCCTTTGACCTGAGCCTTGCTCGGGG  
 GCTAGACTACTATACTGGGGTCACTATGAGGCAGTGTCTACAGATGCCAACCAAGCTGGGGAAGAG  
 CCCCTGGGTGTGGCAGCATAGCTGCTGGAGGGCGCTACGATGGCCTGGTTGGCATGTTTGACCCCAAGG  
 GGCGCAAGGTGCCATGCGTTGGGCTCAGTATTGGAGTGGAGCGGATCTTTCCATTGATAGCAAGATT  
 AGAGGCTTCAGAGGAAAAGGTACGGACCACAGAGACACAGGTGCTTGTGGCATCTGCACAGAAGAAGCTG  
 CTGGAGGAGAGACTGAAGCTTGTCTCAGAGTTATGGGATGCTGGGATCAAGGCTGAGCTGCTGTACAAGA  
 AGAACCCGAAGTTACTAAACAGTTGCAGTACTGTGAGGAGGCAGGCATCCCACTGGTGGCCATCATTGG  
 TGAGCAGGAACTCAAGGATGGCGTCATCAAGCTCCGCTCGGTGGCCAGCAGAGAGGAGGTGGATGTCCGA  
 AGAGAAGACCTTGTGGAGGAAATCAGAAGAAGAACAATCAGCCCTCTCCATCTGC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208184 representing NM\_008214  
 Red=Cloning site Green=Tags(s)

MADRAALEELVRLQGAHVRGLKEQKASAEQIEEEVTKLLKKAQLGQDEGKQKFLKTPKGRDYSRQ  
 AVREKVFVDFIIRCFKRHGAVIDTPVFELKETLTGKYGEDSKLIYDLKDQGGELLSLRYDLVFPFARYLA  
 MNKLTNIKRYHIAKVYRRDNPAMTRGRYREFYQCDFDIAGQFDPMPDAECLKIMCEILSSLQIGNFLVK  
 VNDRRILDGMFAVCGVPDSKFRITCSSVDKLDKVSWEVKNEMVGEKGLAPEVADRIGDYVQHGVS  
 EQLLQDPKLSQNKQALEGLGDLKLLFEYLILFGIDDKISFDLSLARGLDYYTGVIYEAVLLQMPTQAGEE  
 PLGVGSIAGGRYDGLVGMFDPKGRKVPVGLSIGVERIFSIVEQRLEAEEKVRTTETQVLVASAQKLL  
 LEERLKLVSELWDAGIKAELLYKKNPKLLNQLQYCEEAGIPLVAIIGEQLKDGVIKLRVSVASREEVDVR  
 REDLVEEIRRRTNQPLSIC

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

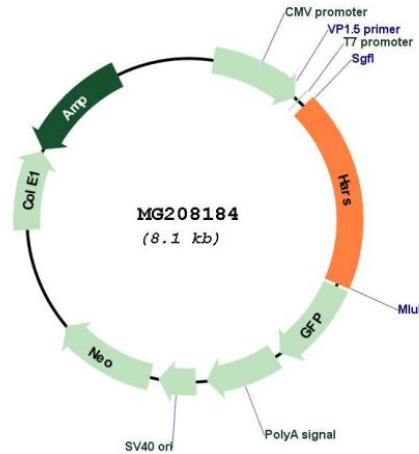
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_008214

ORF Size: 1527 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_008214.2](#), [NP\\_032240.2](#)

**RefSeq Size:** 1903 bp

**RefSeq ORF:** 1530 bp

**Locus ID:** 15115

**UniProt ID:** [Q61035](#)

**Cytogenetics:** 18 B2

**Gene Summary:** Cytoplasmic histidine--tRNA ligase. Plays a role in axon guidance.[UniProtKB/Swiss-Prot Function]